Bird Study (1989) **36**, 212–216

Index

Acrocephalus palustris, 205
Aegithos caudatus, 99
Aix galericulata, 32, 115
Aix sponsa, 32, 35, 115
Alca torda, 105
Anas strepera, 37
Anthus petrosus, 145
Ardea cinerea, 181
Arenaria interpres, 80, 81
Asio flammeus, 145

Baggott, G.K. *See* Davies, A.K.
Bain, C.G. *See* Bibby, C.J.
Behaviour: flight behaviour of post-fledgling Kites, 199; sensitivity of breeding Golden Plovers, 49; Treecreepers associating with Tit flocks, 99
Bibby, C.J. A survey of breeding Wood Warblers *Phylloscopus sibilatrix* in Britain, 1984–1985, 56
Bibby, C.J., Bain, C.G. & Burges, D.J. Bird communities of highland birchwoods, 123
Blackbirds: relative proportions on Irish farmland, 93, 94, 96
Bombycilla garrulus, 145
Bramblings: population fluctuations, 145
Branta b. bernicla, 80
Breeding: clutch size and nesting sites of Mandarin Ducks, 32; cycles in Knot productivity, 83; fledgling dates of Nuthatches, 134; Marsh Warbler breeding biology, 205; nesting period variation in Jackdaws, 73; Razorbills and Guillemots on the Isle of May, 105; sensitivity of Golden Plovers to human intruders, 49; Starling polygyny, 45; success of Arctic species, 80 *See also* mating
Burges, D.J. *see* Bibby, C.J.
Bunting, Snow: population fluctuations, 145
Bustamente, J. & Hiraldo, F. Post-fledgling dependence period and maturation of flight skills in the Black Kite *Milvus migrans*, 199
Bustard, Great: mating system flexibility, 192

Calidris alba, 80
Calidris alpina, 50, 52
Calidris canutus, 83
Calidris ferruginea, 80, 81, 82
Calidris maritima, 77
Calidris minuta, 80
Caprimulgus europaeus, 161
Carranza, J., Hildago de Trucios, S.J. & Ena, V. Mating system flexibility in the Great Bustard: a comparative study, 192
Certhia familiaris, 99
Chaffinch: relative proportions on Irish farmland, 94, 96
Charadrius dubius, 147
Charadrius hiaticula, 80, 81, 82, 154
Christmas, S.E., Christmas, Y.J. & Parr, A.J. Geographical variation in greater covert moult in first winter Coal Tits *Parus ater*, 88
Christmas, Y.J. *See* Christmas, S.E.
Common Bird Census (CBC), 56, 91
Communities: of highland birchwoods, 123 *See also* populations

Bird Study (1989) **36**, 212–216

Index

Acrocephalus palustris, 205
Aegithos caudatus, 99
Aix galericulata, 32, 115
Aix sponsa, 32, 35, 115
Alca torda, 105
Anas strepera, 37
Anthus petrosus, 145
Ardea cinerea, 181
Arenaria interpres, 80, 81
Asio flammeus, 145

Baggott, G.K. *See* Davies, A.K.
Bain, C.G. *See* Bibby, C.J.
Behaviour: flight behaviour of post-fledgling Kites, 199; sensitivity of breeding Golden Plovers, 49; Treecreepers associating with Tit flocks, 99
Bibby, C.J. A survey of breeding Wood Warblers *Phylloscopus sibilatrix* in Britain, 1984–1985, 56
Bibby, C.J., Bain, C.G. & Burges, D.J. Bird communities of highland birchwoods, 123
Blackbirds: relative proportions on Irish farmland, 93, 94, 96
Bombycilla garrulus, 145
Bramblings: population fluctuations, 145
Branta b. bernicla, 80
Breeding: clutch size and nesting sites of Mandarin Ducks, 32; cycles in Knot productivity, 83; fledgling dates of Nuthatches, 134; Marsh Warbler breeding biology, 205; nesting period variation in Jackdaws, 73; Razorbills and Guillemots on the Isle of May, 105; sensitivity of Golden Plovers to human intruders, 49; Starling polygyny, 45; success of Arctic species, 80 *See also* mating
Burges, D.J. *see* Bibby, C.J.
Bunting, Snow: population fluctuations, 145
Bustamente, J. & Hiraldo, F. Post-fledgling dependence period and maturation of flight skills in the Black Kite *Milvus migrans*, 199
Bustard, Great: mating system flexibility, 192

Calidris alba, 80
Calidris alpina, 50, 52
Calidris canutus, 83
Calidris ferruginea, 80, 81, 82
Calidris maritima, 77
Calidris minuta, 80
Caprimulgus europaeus, 161
Carranza, J., Hildago de Trucios, S.J. & Ena, V. Mating system flexibility in the Great Bustard: a comparative study, 192
Certhia familiaris, 99
Chaffinch: relative proportions on Irish farmland, 94, 96
Charadrius dubius, 147
Charadrius hiaticula, 80, 81, 82, 154
Christmas, S.E., Christmas, Y.J. & Parr, A.J. Geographical variation in greater covert moult in first winter Coal Tits *Parus ater*, 88
Christmas, Y.J. *See* Christmas, S.E.
Common Bird Census (CBC), 56, 91
Communities: of highland birchwoods, 123 *See also* populations

Corvus corone cornix, 145
Corvus monedula, 73
Crows, Hooded: population fluctuations, 145
Cuckoos: parasitism of Marsh Warbler nests, 209

Davies, A.K. & Baggott, G.K. Clutch size and nesting sites of the Mandarin Duck *Aix galericulata*, 32
Davies, A.K. & Baggott, G.K. Egg-laying, incubation and intraspecific nest parasitism by the Mandarin Duck *Aix galericulata*, 115
Diet: of Atlantic Puffin and Northern Gannet chicks, 170
Ducks, Mandarin: clutch size and nesting sites, 32; egg-laying, incubation and nest parasitism, 115
Ducks, Carolina Wood: clutch size and nesting sites, 32, 35; egg-laying, incubation and nest parasitism, 115
Dunlin: population cycles correlate to Geese, 80, 81, 82; reaction to human intrusion, 50, 52
Dunnock: relative proportions on Irish farmland, 94, 96

Ecology: cycles in Knot productivity, 36; diet of Puffin and Gannet chicks, 170; farmland birds in Ireland, 91; fluctuations in some scarce winter visitors, 145; highland birchwood communities, 123; Nightjar status and habitat, 161; parallel changes in numbers of waders and geese, 80; winter movements of Starlings, 16 *See also* breeding; populations
Eens, M. *See* Pinxten, L.R.
Eggs: clutch size of the Mandarin Duck, 32; egg-laying by Marsh Warblers, 205; egg-laying, incubation and nest parasitism by the Mandarin Duck, 115
Elsacker, L. van *See* Pinxten, L.R.
Ena, V. *See* Carranza, J.
Erithacus rubecula, 94, 96, 97
European Union for Bird Ringing (EURING), 3

Farmland: bird populations in Ireland, 91
Feathers: as a measure of wing-length in passerines, 1; greater covert moult in Coal Tits, 88
Fledglings: fledgling dates of Nuthatches, 134; fledgling success of Marsh Warblers, 206; post-fledgling in the Black Kite, 199
Flight: maturation of skills in the Black Kite, 199
Fowler, J.A. *See* Peach, W.J.
Fox, A.D. & Salmon, D.G. The winter status and distribution of Gadwall in Britain and Ireland, 37
Fratercula arctica, 170
Fringilla coelebs, 94
Fringilla montifringilla, 145

Gadwall: winter status and distribution, 37
Gannets, Northern: diet of chicks, 170
Geese: parallel population changes with waders, 80
Godwits, Bar-tailed: population cycles, 80, 81, 82
Goldcrests: association of Treecreepers with flocks of, 99
Guillemots: breeding biology on the Isle of May, 105, 111, 112–13

Harris, M.P. & Wanless, S. The breeding biology of Razorbills *Alca torda* on the Isle of May, 105
Henderson, I.G. The exploitation of Tits *Parus* species, Long-tailed Tits *Aegithos caudatus* and Goldcrests *Regulus regulus* by Treecreepers *Certhia familiaris*: a behavioural study, 99
Herons, Grey: census in Scotland, 181
Hildago de Trucios, S.J. *See* Carranza, J.
Hiraldo, F. *See* Bustamante, J.

International Wildfowl Counts, 37

Jackdaws: nesting period variation, 73
Jenni, L. & Winkler, R. The feather-length of small passerines: a measurement for wing-length in live birds and museum skins, 1

Kelsey, M.G. Breeding biology of Marsh Warblers *Acrocephalus palustris* in Worcestershire: a comparison with European populations, 205
Kites, Black: post-fledgling and flight skills, 199
Knots: breeding productivity, 83

Lanius excubitor, 145
Lemmings: cycles affecting bird populations, 80, 82, 84
Limosa lapponica, 80, 81, 82
Lysaght, L.S. Breeding bird populations in mid-West Ireland in 1987, 91

Marquiss, M. Grey herons *Ardea cinerea* breeding in Scotland: numbers distribution, and census techniques, 181
Martin, A.R. The diet of Atlantic Puffin *Fratercula arctica* and Northern Gannet *Sula bassana* chicks at a Shetland colony during a period of changing prey availability, 170
Mason, C.F. Changes in the population sizes of some scarce winter visitors, 145
Mason, C.F. Parallel changes in numbers of waders and geese, 80
Mating: Great Bustard mating system flexibility, 192; polygyny in the Starling, 45 *See also* breeding
Matthysen, E. Fledgling dates of Nuthatches *Sitta europaea* in relation to age, territory and individual variation, 134
Measurements: linear compared to mass, 77
Milvus migrans, 199

National Wildfowl Count Scheme, 38
Nesting sites: of the Mandarin Duck, 32
Nightjars: status and habitat in Suffolk, 161
Nuthatches: fledgling dates, 134

Otis tarda, 192
Owls, Short-eared: population fluctuations, 145

Parasitism: intraspecific nest parasitism by the Mandarin Duck, 115; of Marsh Warbler nests, 209
Parr, A.J. *See* Christmas, S.E.
Parrinder, E.D. Little Ringed Plovers *Charadrius dubius* in Britain in 1984, 147
Parus ater, 88
Parus spp.: association of Treecreepers with flocks of, 99
Passerines: feather-length representing wing-length, 1
Passer montanus, 23
Peach, W.J. & Fowler, J.A. Movements of wing-tagged Starlings *Sturnus vulgaris* from an urban communal roost in winter, 16
Phylloscopus sibilatrix, 56
Pinxten, L.R., Eens, M., van Elsacker, L. & Verheyan, R.F. An extreme case of polygyny in the European Starling *Sturnus vulgaris*, 45
Pipits, Rock: population fluctuations, 145
Plectrophenax nivalis, 145
Plovers, Golden: breeding sensitivity to human intruders, 49
Plovers, Little Ringed: 1984 population survey, 147
Plovers, Ringed: breeding numbers in 1984, 154; population cycles, 80, 81, 82
Pluvialis apricaria, 49
Populations: breeding Grey Herons in Scotland, 181; breeding Ringed Plover, 154; breeding Wood Warbler, 56; farmland birds in Ireland, 91; fluctuating Tree Sparrow, 23; fluctuations of scarce

winter visitors, 145; highland birchwood, 123; Little Ringed Plover survey, 147; Nightjar in Suffolk, 161; parallel changes in waders and geese, 80; winter Gadwall, 37
Prater, A.J. Ringed Plover *Charadrius hiaticula* breeding population of th. United Kingdom in 1984, 154
Predation: possible effect of Treecreeper association with Tits, 99; predation of lemmings affecting bird populations, 80, 82, 84–6
Prunella modularis, 94, 96
Puffins: diet of chicks, 170

Ravenscroft, N.O.M. The status and habit of the Nightjar *Caprimulgus europaeus* in coastal Suffolk, 161
Razorbills: breeding biology on the Isle of May, 105
Regulus regulus, 99
Reproduction *See* breeding; mating
Robins: domination in Irish farmland, 94, 96, 97
Roosts: winter movements of starlings from, 16

Salmon, D.G. *See* Fox, A.D.
Sandpipers, Curlew: population cycles correlate with Brent Geese, 80, 81, 82
Sandpipers, Purple: linear measurements compared to mass, 77
Shrike, Great Grey: population fluctuations, 145
Sitta europaea, 134
Soler, M. Nesting period variation in Jackdaw *Corvus monedula* in relation to brood size, 73
Sparrows, House: wing-lengths of fresh and frozen birds, 12
Sparrows, Tree: fluctuations in abundance, 23
Starlings, European: polygyny, 45; winter movements from an urban roost, 16
Stints, Little: population cycles, 80
Sturnus vulgaris, 16, 45
Sula bassana, 170
Summers, R.W. The use of linear measurements when comparing masses, 77
Summers, R.W. *See also* Underhill, R.G.
Summers-Smith, J.D. A history of the status of the Tree Sparrow *Passer montanus* in the British Isles, 23

Tits: association of Treecreepers with flocks of, 99
Tits, Coal: greater covert moult, 88
Treecreepers: association with tit flocks, 99
Troglodytes troglodytes, 94, 96, 97
Turdus merula, 93, 94, 96

Underhill, L.G., Waltner, M. & Summers, R.W. Three-year cycles in breeding productivity of Knots *Calidris canutus* wintering in southern Africa suggest Taimyr Peninsula provenance, 83
Uria aalge, 105, 111, 112–13

Verheyen, R.F. *See* Pinxten, L.R.

Waders: parallel population changes with geese, 80
Waltner, M. *See* Underhill, L.G.
Wanless, S. *See* Harris, M.P.
Warblers, Marsh: breeding biology, 205
Warblers, Wood: survey of breeding, 56
Waxwings: population fluctuations, 145
Wildfowl Trust, National Wildfowl Counts Scheme, 38

Wings: feather-length representing wing-length in passerines, 1
Wing-tags: effects of, 20
Winkler, R. *See* Jenni, L.
Wrens: domination in Irish farmlands, 94, 96, 97

Yalden, D.V. & Yalden, P.E. The sensitivity of breeding Golden Plovers *Pluvialis apricaris* to human intruders, 49
Yalden, P.E. *See* Yalden, D.W.